



# Intel® NetStructure™ ZT 5515 Value Board Reference Design

## Product Overview

The Intel® NetStructure™ ZT 5515 Value Board Reference Design is a platform that enables OEMs to reduce time-to-market for telecom and Internet IP-based processor blades. The design is a PICMG\* 2.16-compliant processor board that combines optimized price/performance with a feature set that supports a broad range of applications including Web servers, mail servers, cache servers, VPN switches, media gateways, 2.5 G and 3 G wireless base stations in addition to IP DSLAM and voice/video-data servers. This modular and standards-based design combines low development costs with the performance of the Mobile Intel® Pentium® 4 Processor – M. The processor board is validated with the Intel® NetStructure™ family of Packet Switched Backplane (PSB) products and is also designed to be interoperable with third-party PICMG 2.16-compliant components.

The Intel® Pentium® 4 PICMG 2.16 CompactPCI Compute Processor Board is designated the Intel® NetStructure™ ZT 5515 Value Board.

## Product Highlights

### Computing Core

- Mobile Intel Pentium 4 Processor – M provides exceptional price/performance
- 400 MHz processor side bus and 512 KB L2 cache supports 256 MB, 512 MB, 1 GB and 2 GB\*\* ECC DDR SDRAM memory configurations
- Supports 256 MB, 512 MB, 1 GB and 2 GB\*\* ECC DDR SDRAM memory configurations
- Intel® 845E chipset

\*\*2 GB requires 512 MB addressing

### Peripherals and I/O

- 16 MB on-board flash memory to support embedded applications
- Optional EIDE hard drive (up to 40 GB) or 32/33 PMC site
- Dual 10/100/1000 Ethernet ports

## Benefits

### Interoperability

- Designed to operate in PICMG 2.16-compliant high-density computing platforms for carrier-grade telecom and Internet applications.
- Integrated IPMI-based Baseboard Management Controller (BMC), compliant with the PICMG 2.9 System Management Specification, enables comprehensive, protected management.

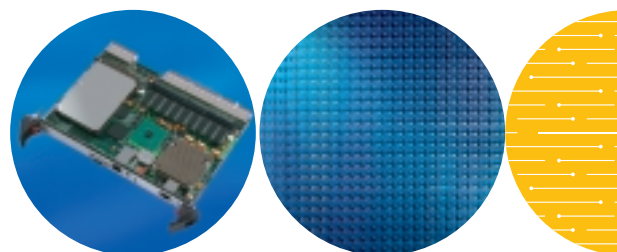
### Intel® Flash Memory and CompactFlash\*

- 16 Mbytes on-board Intel® StrataFlash® memory supports a field-upgradeable system BIOS and can be used to store a bootable operating system image.
- CompactFlash\* memory expansion through optional mezzanine card.

### GB Ethernet

- Two GB Ethernet channels, provided via on-board 10/100/1000 Mbps Ethernet LAN interfaces, for high-speed networking performance, routable to the backplane through the BIOS setup configuration.

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## Flexible Software Support

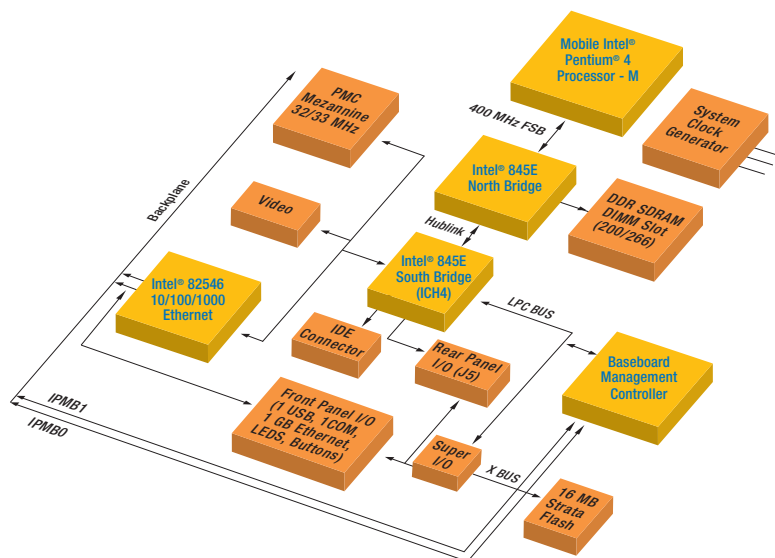
- Intel® NetStructure™ ZT 5515 Value Board includes embedded BIOS loaded in on-board flash. The BIOS is user-configurable to boot an operating system residing on local flash memory, on a local hard drive, or over a network.
- Compatible with leading operating systems, with enhanced support for Windows® 2000 Server, Windows® .NET Server, MontaVista Linux®, and VxWorks®, including additional drivers for selected peripherals and flash drives. Check [developer.intel.com](http://developer.intel.com) for the specific versions of software validated.

## Options for Developers

Developers can choose from three levels of information:

1. Schematics, technical product specifications and collateral are available for the Intel® NetStructure™ ZT 5515 Value Board Reference Design at no cost.
2. A board license provides most of the information required to modify and manufacture the value board design. It includes schematics, gerbers, CAD files, BMC license, manufacturing tests, PLD programming and associated documentation. Contact your local sales representative for pricing details.
3. The Intel® NetStructure™ ZT 5515 Value Board is available as a standard product. More information on the Intel® NetStructure™ product line is available at [developer.intel.com/design/network/products/cbp/linecard.htm](http://developer.intel.com/design/network/products/cbp/linecard.htm).

## Intel® NetStructure™ ZT 5515 Value Board Reference Design



## Intel Access

Developer's Site:

[developer.intel.com](http://developer.intel.com)

Embedded Intel® Architecture Home Page:

[developer.intel.com/design/intarch](http://developer.intel.com/design/intarch)

Other Intel Support:

Intel Literature Center [developer.intel.com/design/litcentr/](http://developer.intel.com/design/litcentr/)  
(800) 548-4725 7 a.m. to 7 p.m. CST (U.S. and Canada)

International locations please contact your local sales office.

General Information Hotline:

(800) 628-8686 or (916) 356-3104 5 a.m. to 5 p.m. PST

For more information, visit the Intel Web site at: [developer.intel.com](http://developer.intel.com)

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